IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Stephen R. Hanson

Serial No:

Not yet assigned

Conf. No:

Not yet assigned

Filed:

Herewith

For:

METHODS AND COMPOSITIONS FOR TREATING PLATELET-

RELATED DISORDERS

Examiner:

Not yet assigned

Art Unit:

Not yet assigned

Mail Stop Patent Application

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

STATEMENT FILED PURSUANT TO THE DUTY OF DISCLOSURE UNDER 37 CFR §§1.56, 1.97 AND 1.98

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, the Applicant requests consideration of this Information Disclosure Statement.

PART I: Compliance with 37 C.F.R. §1.97

This Information Disclosure Statement has been filed within three months of the filing of the application and before the mailing date of a first Office Action on the merits in the above-identified case.

No fee or certification is required.

PART II: Information Cited

The Applicant hereby makes of record in the above-identified application the information listed on the attached form PTO-1449 (modified). The order of presentation of the references should not be construed as an indication of the importance of the references.

The Applicant hereby makes the following additional information of record in the above-identified application:

International Search Report for PCT/US00/25781, filed September 21, 2000 (copy enclosed)

The Applicant would like to bring to the Examiner's attention the following copending application (copy enclosed):

Docket No. Serial No. Filing Date

E00355.70006.US TBD June 24, 2003

PART III: Explanation of Non-English Language References and Remarks Concerning Other Information Cited

The following is a concise explanation of the relevance of each non-English language reference listed on the attached form PTO-1449 (modified):

The following are remarks concerning the other information cited:

PART IV: Remarks

Documents cited on the attached form PTO-1449 (modified) are enclosed unless otherwise indicated on the attached form PTO-1449 (modified). It is respectfully requested that:

- 1. The Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims;
- 2. The enclosed form PTO-1449 be signed by the Examiner to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application;
- 3. The citations for the information be printed on any patent which issues from this application.

By submitting this Information Disclosure Statement, the Applicant makes no representation that a search has been performed, of the extent of any search performed, or that more relevant information does not exist.

By submitting this Information Disclosure Statement, the Applicant makes no representation that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b).

- 3 -

Art Unit: Not yet assigned

By submitting this Information Disclosure Statement, the Applicant makes no representation that the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

Notwithstanding any statements by the Applicant, the Examiner is urged to form his own conclusion regarding the relevance of the cited information.

An early and favorable action is hereby requested.

Respectfully submitted,

Rv

Maria A. Trevisan, Reg No. 48,207 Wolf, Greenfield & Sacks, P.C. 600 Atlantic Avenue Boston, MA 02210 Telephone (617) 720-3500

Docket No. H00646.70001.US

Dated: June

2003

x6/31/03x

FORM PTO-1449/A and B (Modified)	APPLICATION NO.: Not yet assigned	ATTY, DOCKET NO.: H00646.70001.US			
INFORMATION DISCLOSURE	FILING DATE: June 25,	2003			
STATEMENT BY APPLICANT	APPLICANT: Stephen R. Hanson				
Sheet 1 of 4	GROUP ART UNIT: Not yet assigned	EXAMINER: Not yet assigned			

U.S. PATENT DOCUMENTS

Examiner's	Examiner's	Cite	U.S. Patent Do	cument	Name of Patentee or Applicant of Cited	Date of Publication or of issue
Initials#	No.	Number	Kind Code	Document	of Cited Document MM-DD-YYY	
	*A1	3,932,407		Beverung, Jr., et al.	01/13/76	
	*A2	3,978,213		Lapinet, et al.	08/31/76	
	*A3	4,088,753		Parmer	05/09/78	
	*A4	4,146,718		Jenks, et al.	03/27/79	
	*A5	4,206,214		Harker, et al.	06/03/80	
	*A6	4,208,521		Crenshaw, et al.	06/17/80	
	*A7	4,357,330		Fleming, Jr., et al.	02/02/82	
	*A8	4,393,063		Moncada	07/12/83	
	*A9	4,404,212		Moncada	09/13/83	
	*A10	4,406,904		Welle, et al.	09/27/83	
	*A11	4,432,980		Fleming, Jr., et al.	02/21/84	
	*A12	4,436,934		Larock	03/13/84	
	*A13	4,444,777		Fleming, Jr., et al.	04/24/84	
	*A14	4,568,676		Smith	02/04/86	
	*A15	4,743,445		Delwiche, et al.	05/10/88	
	*A16	4,847,276		Yarrington	07/11/89	
	*A17	5,185,323		Ģewirtz	02/09/93	
	*A18	5,306,709		Gewirtz	04/26/94	
	*A19	5,391,557	0	Cullinan, et al.	02/21/95	
	*A20	5,391,737		Reiter, et al.	02/21/95 ~	
	*A21	5,440,020		Coller	08/08/95	
	*A22	5,472,944		Gewirtz, et al.	12/05/95	
	*A23	5,620,960		Arnold, et al.	04/15/97	
	*A24	5,789,539		Daly, et al.	08/04/98	
	*A25	5,801,245		Lang	09/01/98	
	*A26	6,008,232		Lakshmanan	12/28/99	
	*A27	6,043,260		Chen, et al.	03/28/00	
	*A28	6,103,740		Lakshmanan	08/15/00	
	*A29	6,110,471		Conti, et al.	08/29/00	
	*A30	6,156,753		Doherty, Jr., et al.	12/05/00	
	*A31	6,287,599	B1	Burnside et al.	09/11/01	
	*A32	RE 31,617		Beverung, Jr., et al.	06/26/84	
	A33	6,376,242		Hanson	04/23/02	

FOREIGN PATENT DOCUMENTS

Examiner's Initials#	Cite	For	eign Patent Docu	ment	Name of Patentee or Applicant of Cited	Date of Publication of	Translation
	No.	Office/ Country	Number	Kind Code	Document (not necesșary)	Cited Document MM-DD-YYYY	(Y/N)
	*B1	ĘР	0 260 527	Α		03/23/88	Abstract :-
	*B2	EP	0 778 258			06/97	
	*B3	ЕР	0 994 114			04/00	

1	*B4	EP	0 514 917				11/25/92	ā
	*B5	EP	0 904 783		•		03/99	r
	*B6	HU	206 496	В			11/30/92	Abstract
	*B7	PCT	WO99/08524			, -	02/99	
	*B8	PCT	WQ99/08525				02/99	
	*B9	PCT	WO99/20223			 	 04/99	
	*B10	PCT	WO93/23426		_		25/11/93	Abstract
	*B11	PCT	WO99/34792				07/15/99	
	*B12	UK	GB2,256,195				12/92	

OTHER ART — NON PATENT LITERATURE DOCUMENTS
e of the author (in CAPITAL LETTERS) title of the article (when a

Examiner's	Cite	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of	Translation	
Initials# No		the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-	(Y/N)	
	*01	issue number(s), publisher, city and/or country where published.	 	
	*Cl	Al-Jibouri, L.M. and Najim, R.A., "Effect of dipyridamole on blood glucose and liver cyclic		
		AMP levels and platelet count during endotoxaemia in mice", Clin. Exp. Pharmacol. Physiol.,] ;	
	+00	15(7):527-32 (1988) ABSTRACT	1.5	
	*C2	Andes, et al., "Inhibition of platelet production induced by an antiplatelet drug, anagrelide, in		
		normal volunteers", Thromb Haemost., 52(3):325-8 (1984)		
	*C3	Balan, K.K and Critchley, M., "Outcome of 259 patients with primary proliferative	7.	
		polycythaemia (PPP) and idiopathic thrombocythaemia (IT) treated in a regional nuclear		
		medicine department with phosphorus-32—a 15 year review", Br. J. Radiol., 70(839):1169-73		
		(1997) ABSTRACT		
***	*C4	Balduini, et al., "Effect of anagrelide on platelet count and function in patients with		
		thrombocytosis and myeloproliferative disorders", <i>Haematologica</i> , 77(1):40-3 (1992)		
		ABSTRACT	4	
	*C5	Barnathan, et al., "Aspirin and dipyridamole in the prevention of acute coronary thrombosis		
•		complicating coronary angioplasty", Circulation, 76(1):125-134 (1987)		
	*C6	Bellucci, et al., "Positive and negative regulation of megakaryocytopoiesis", C.R. Seances Soc.		
		Biol. Fil., 190(5-6):515-32 (1996) ABSTRACT		
	*C7	Bunn, H.F., "Pathophysiology of the anemias", Harrison's Principles of Internal Medicine:		
		Hematology and Oncology, 1514, 1566-67 New York, McGraw-Hill, (1991)		
· ·	*C8	Cazenave, J.P. and Gachet, C., "Anti-platelet drugs: do they affect megakaryocytes?", Baillieres		
•		Clin Haematol, 10(1):163-80 (1997)		
	*C9	Chen, et al., "Thrombospondin, a negative modulator of megakaryocytopoiesis", J. Lab. Clin.	 	
	Ų,	Med., 129(2):231-8 (1997) ABSTRACT		
· · · · · · · · · · · · · · · · · · ·	*C10	Cortelazzo, et al., "Hydroxyurea for patients with essential thrombocythemia and a high risk of		
	1010			
	*011	thrombosis", N. Engl. J. Med., 332(17):1132-6 (1995) ABSTRACT		
	*C11	Dale, et al., "Chronic thrombocytopenia is induced in dogs by development of cross-reacting	- 7	
	1015	antibodies to the MpL ligand", <i>Blood</i> , 90(9):3456-3461 (1997)		
	*C12	Davies, et al., "Adverse events reported by postmenopausal women in controlled trials with	-	
<u> </u>		raloxifene", Obstetrics & Gynecology, 93(4):558-565 (1999)	<u> </u>	
	*C13	De Serres, et al., "Immunogenicity of thrombopoietin mimetic peptide GW395058 in BALB/c		
		mice and New Zealand white rabbits evaluation of the potential for thrombopoietin neutralizing		
		antibody production in man", Stem Cells, 17:203-209 (1999)	4	
	*C14	Deng, et al., "A monoclonal antibody cross-reactive with human platelets, megakaryocytes, and	3.5	
		common acute lymphocytic leukemia cells", Blood, 61(4):759-764 (1983)		
	*C15	Gaver, et al., "Disposition of anagrelide, an inhibitor of platelet agregation", Clin. Pharmacol.	1	
		Ther., 29(3):381-6 (1981) ABSTRACT		
	*C16	Gewirtz, et al., "Cell-mediated suppression of megakaryocytopoiesis in acquired		
		amegakaryocytic thrombocytopenic purpura", <i>Blood</i> , 68(3):619-26 (1986) ABSTRACT		
	*C17	Glushkov, et al., "Changes in hemostatic system indices during hemosorption in healthy dogs",		
		Biull Eksp Biol. Med., 94(7):95-8 (1982) ABSTRACT		
	*C18	Goldberg, et al., "Thrombocytotic suppression of megakaryocyte production from stem cells",		
		Blood, 49(1):59-69 (1977) ABSTRACT		
	*C19	Gugliotta, et al., "In vivo and in vitro inhibitory effect of alpha-interferon on megakaryocyte	155	
	0.5	colony growth in essential thrombocythaemia", Br. J. Haematol., 71(2):177-81 (1989)	1194 2.7 2.8 2.8 2.8 2.7	
		ABSTRACT	***	
	*C20	Herron, et al., "Inhibition of megakaryocytic colonies in vitro by anagrelide", Clin. Res.,		
	٠.ب20			
	+00.	34(2):459A (1986) ABSTRACT	 	
	*C21	Hung, et al., "Focused antithrombotic therapy: novel anti-platelet salicylates with reduced		

	ulcerogenic potential and higher first-pass detoxification than aspirin in rats", J. Lab. Clin. Med., 132(6):469-77 (1998) ABSTRACT	
*C22		
*C23	Lecomte-Raclet, et al., "New insights into the negative regulation of hematopoiesis by	
*C24		
*C25		. : 48
*C26		
*C27		
*C28		
*C29	dosing recommendations", <i>Pharmacotherapy</i> , 17(4):822-6 (1997) ABSTRACT Meanwell, et al., "Inhibitors of blood platelet cAMP phosphodiesterase. 2. Structure-activity	
	relationships associated with 1,3-dihydro-2H-imidazo[4,5-b]quinolin-2-ones substituted with functionalized side chains", <i>J. Med. Chem.</i> , 35(14):2672-87 (1992) ABSTRACT	1
*C30		i i
*C31	Negrev, et al., "Influence of nonselective beta-adrenergic impacts on the effects of thrombocytopoictin in mice", <i>Acta Physiologica et Pharmacologica Bulgaria</i> ", 13:1:35-39 (1987)	
*C32		
*C33	Robak, T, et al., "Anagrelide—new antiplatelet drug", <i>Acta Haematol Pol.</i> , 25(4):309-15 (1994) ABSTRACT	1.0
*C34	Sato, et al., "Multivariate analysis of risk factors for thrombus formation in University of Tokyo ventricular assist device", <i>J. Thorac. Cardiovasc. Surg.</i> , 106:520-7 (1993)	(2) (2) (3) (4) (5) (7)
*C35		
*C36		
*C37		
*C38		
*C39		31
*C40		
*C41		
*C42		
*C43		
*C44		2
*C45		
*C40		
*C47		
*C48	myeloproliferative disorders with excessive thrombocytosis", <i>Eur. J. Cancer</i> , 27 Suppl 4:S69-71 (1991) ABSTRACT	
*C49	Yeager, et al., "Effects of cyclophosphamide on murine bone marrow and splenic megakaryocyte-CFC, granulocyte-macrophage-CFC, and peripheral blood cell levels", J. Cell.	

	Physiol., 112(2):222-8 (1982) ABSTRACT		
*	Harker, et al., "Regulation of Platelet Production and Function by Megakaryocyte Growth and Development Factor in Nonhuman Primates", Blood, Vol. 87, No. 5, pp. 1833-1844, (1996)		***
*(Harker, "Platelets in Thrombotic Disorders: Quantitative and Qualitative Platelet Disorders Predisposing to Arterial Thrombosis", Seminars in Hematology, Vol. 35, No. 3, pp. 241-252, (1998)		
*(van der Loo, et al. "A Role for Changes in Platelet Production in the Cause of Acute Coronary Syndromes", Arterioscler Thromb Vasc Biol., Vol. 19, pp. 672-679 (1999)	*	• ; .
*:	Broudy, et al., "Thrombopoietin Stimulates Colony-Forming Unit-Megakaryocyte Proliferation and Megakaryocyte Maturation Independently of Cytokines that Signal through the gp130 Receptor Subunit," Blood, Vol. 8, No. 6, pp. 2026-2032 (1996)	i	1.58.14
*	Luoh, et al., "Role of the Distal Half of the CMPL Intracellular Domain or Control of Platelet Production by Thrombopoietin in Vivo," Mol. Cell. Biol., Vol. 20, No. 2, pp. 507-515 (2000)		
*	Landolfi, et al., "Aspirin in Polycythemia Vera and Essential Thrombocythemia: Current facts and Perspectives", Leukemia and Lymphoma, 1996, Vol. 22, Suppl. 1, pp. 83-86		
*	Lane, et al., "Anagrelide metabolite induces thrombocytopenia in mice by inhibiting megakaryocyte maturation without inducing platelet aggregation," Experimental Hematology, 2001, Vol. 29, pp. 1417-14	24	
*	Harker, "Platelets in Thrombotic Disorders: Quantitative and Qualitative Platelet Disorders Predisposing t Arterial Thrombosis", Seminars in Hematology, Vol. 35, No. 3, pp. 241-252 (1998)	.0	Street Company
*	van der Loo, et al., "A Role for Changes in Platelet Production in the Cause of Acute Coronary Syndromes", Arterioscler Thromb Vasc Biol., Vol. 19, pp. 672-679 (1999)		
*	Hennekens, "Update on aspirin in the treatment and prevention of cardiovascular disease" <i>Am. Heart J.</i> , 1 (4 Pt2):S9-S13 (1999) Abstract only	37	
*	Tang, et al. "Inhibition of platelet function by antithrombotic agents which selectively inhibit low-Km cyclic 3',5'-adenosine monophosphate phosphodiesterase", <i>J. Lab.Clin. Med.</i> , 95(2):241-57 (1980)		· ¥
	Fleming, et al., "A Potent New Inhibitor of Platelet Aggregation and Experimental Thrombosis, Anagrelide (BL-4162A)", <i>Throm. Res.</i> , 15(3-4):373-88 (1979)	,	In V
*	Merck Research Laboratories, N. J., "the merck manual", 1999, p. 918, column 2, paragraph 4		

EXAMINER		DATE CONSIDERED	
	-		

#EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[NOTE - Must provide a copy of any patent, publication, other information listed, even if it was previously submitted to, or cited by, the U.S. Patent Office in an earlier application, unless the earlier application is identified by the IDS and is relied upon for an earlier filing date under 35 U.S.C. §120, and the copy was provided in the earlier application.]

^{*}a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Scrial No. 09/666,223, filed September 21, 2000, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).